

**ABSTRACT OF THE DISCLOSURE**

A display including static pixels and dots (individual element) arranged in a predetermined manner. Dynamic pixels are generated dynamically, comprising dots selected from at least two adjacent static pixels. Overlapping of dynamic pixels on the static pixels creates an enhanced resolution at the human's eyes. A weighted dot rendering method can be performed for all static and dynamic pixels of a low resolution inventive display to be displayed in an additive way with the viewing perception of an enhanced higher resolution display. By adjusting the light emitting area and space of dots in a static pixel, maximum optimized brightness in a white balance equilibrium with good contrast can be obtained in finding an optimal ratio between the non light emitting area (black mask or black barrier ribs) and the light emitting area.